

TECHNICAL DATASHEET

Number plate detector

MODEL NUMBER:

72011 & 72012

General

The Number Plate Detector is a variation of our standard battery powered detector. It is triggered by motion detection or tamper sensor. The camera element has been optimized to provide readable number plates in a wide range of lighting and environmental conditions

We have two variants, both of which provide a monochrome only image

Distance Detector to vehicle

8mm lens - optimised for vehicles **6 - 12M/20-40 feet**

12mm lens - optimised for vehicles **9 - 18M/30-60 feet**

Vehicle speed below 15 MPH/25 KPH

Operating temperature range

-40°C to +60°C

-40°F to +140°F

IP rating

67 (waterproof)

Weight (including battery)

700g / 1,54 lb

Dimensions

85x120x100mm / 3.34x4.72x3.93 in

Colour

NATO Green (RAL6014)



Motion Detection

Reconeyez detector uses passive infrared (PIR) sensor and signal analysis to track thermal signature across the monitored area. If motion is detected an alarm is generated and the camera is activated.

Maximum detection range

35m/114.8 ft

Detection angles standard

13° @ 30.5m/100 ft

Minimum alarm interval

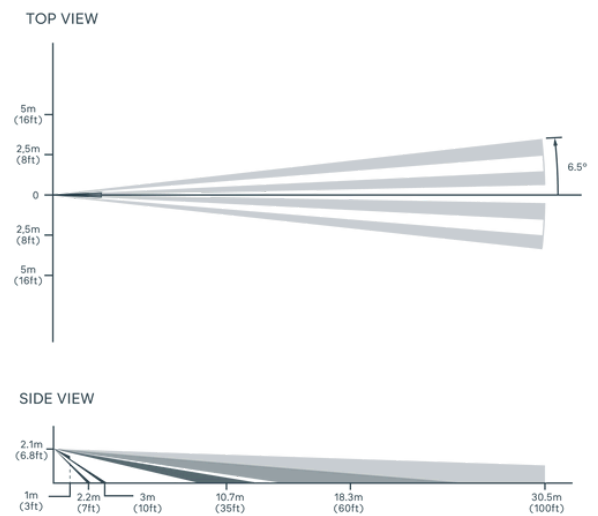
**Configurable (default 0s -
limited by camera to ~1.5s)**

Sensitivity

Configurable

PIR DETECTION

PIR detection zones for Number Plate detector



Short range radio

Short-range 2.4GHz radio is used for two-way communication between the Detector and other Reconeyez devices.

Standard	IEEE 802.15.4
Bandwidth	2 MHz
Data rate	250 kbps
Modulation	QPSK
Antenna	omnidirectional
EIRP	12 dBm
Security	ECC (secp160r1)
Authentication & encryption	AES 128
Max LOS distance	500M / 1640.42 ft
Network topology	mesh

Camera

Camera module comprises a day camera for colour imaging, a night camera for monochrome imaging and an infrared illuminator for dark conditions. Camera stores full size raw images in internal memory and smaller size jpg images are uploaded to the command center server.

Internal memory	7.6 GB
Storage capacity	1800+ images
Downloaded image size	Thumbnail ~20 kB

Number plate camera

Picture resolution	1280 x 960
Raw image size	2.5 MB
Horizontal angle	63°

Battery

Detector is powered by 1 rechargeable Li-Ion battery.

Voltage	3.7V
---------	-------------

Capacity	10.2 Ah
----------	----------------

Lifetime	up to 400 days standby / up to 16,000 events
----------	---

Time to recharge	7-12 hours (depending on charge type)
------------------	--

Auxiliary solar panel	optional
-----------------------	-----------------